Claims

[c1]	A method for detecting the status of printers on a network using a print
	processor, said method comprising the acts of:
	sending a signal to a print processor; and
	detecting the status of printers on a network from said print processor
	to determine the availability of said printers.

- [c2] The method of claim 1 wherein said signal is a print task.
- [c3] The method of claim 1 wherein said detecting comprises obtaining network print queue information.
- [c4] The method of claim 1 wherein said detecting comprises bi-directional communication between a print processor, a port manager and a printing device.
- [c5] The method of claim 1 wherein said detecting comprises accessing data from a Management Information Base (MIB).
- [c6] The method of claim 1 wherein said detecting comprises communication with a printing device using a protocol selected from the group consisting of Simple Network Management Protocol (SNMP), Remote Management (RMON) and Internet Printing Protocol (IPP).
- [c7] The method of claim 1 wherein said detecting comprises the use of an Application Program Interface (API) call.
- [c8] A method of improving the probability of successful print task completion using a status detecting print processor, said method comprising:

sending a print task to a print processor; detecting, from said print processor, the status of a plurality of printing devices; and directing said print task to an available printing device among said plurality of printing devices.

[c9] The method of claim 8 wherein said status of a plurality of printing devices is

	presented to a user for selection of one or more available devices and said directing directs said print task to a device selected by said user.
[c10]	The method of claim 8 wherein a default printing device is selected by a user prior to said detecting and said directing directs said print task to said default device when said default device is available.
[c11]	The method of claim 8 wherein said print processor may also modify a print task to enable cluster printing functions.
[c12]	The method of claim 11 wherein said modifying said cluster printing functions comprise job splitting.
[c13]	The method of claim 11 wherein said modifying said cluster printing functions comprise copy splitting.
[c14]	The method of claim 11 wherein said detecting determines a number of available printing devices and said modifying divides said initial print task into a number of modified print tasks equal to said number of available printing devices.
[c15]	A method for improving printing system capability and performance without addition of hardware or modification of application software, said method comprising: removing a non-status-detecting print processor (NPP) from a printing system; and replacing said NPP with a status-detecting print processor (SDPP).
[c16]	The method of claim 15 wherein said SDPP is also cluster enabling.
[c17]	A computer readable medium comprising instructions for performing functions within a print processor, said instructions comprising the acts of: interpreting print task data; and detecting the status of printing devices.
[c18]	The same was dable medium of claim 17 further comprising instructions

The computer readable medium of claim 17 further comprising instructions

for the act of redirecting a print task from its original destination to at least one other destination.

[c19] A computer data signal embodied in an electronic transmission, said signal having the function of detecting printing device status with a print processor, said signal comprising instructions for:

interpreting print task data; and detecting the status of printing devices.

[c20] A print processor comprising:

instructions for interpreting print task data; and instructions for detecting the status of printing devices.

[c21] A method of printing using a status detecting print processor, said method comprising:

selecting a preferred printer group; modifying said print task to enable cluster printing thereby creating a plurality of modified print tasks;

detecting, from said print processor, the status of a plurality of printing devices comprising said preferred printer group; directing said modified print tasks to said preferred printer group when all of the printers within said preferred printer group are available; and

forming a second group of printers comprising the available printers within said preferred group and other available printers and sending said modified tasks to said second group when said second group comprises a sufficient number of printers to print said modified print tasks.

[c22] The method of claim 21 further comprising selecting a group of backup printers from which said other available printers may be chosen.

[c23]

The method of claim 21 further comprising reconfiguring said modified print tasks to require fewer printers when a sufficient number of available printers

cannot be found.

- [c24] The method of claim 21 further comprising forming a third group of printers comprising any available printers from said preferred group, any other available printers and any busy printers and directing said modified print tasks to said third group.
- [c25] The method of claim 21 further comprising entering a wait period when a sufficient number of printers are not available and rechecking for available printers after said wait period.
- [c26] The method of claim 21 further comprising activating a user prompt to solicit user input.